

Figure 1.

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Matrix Plot

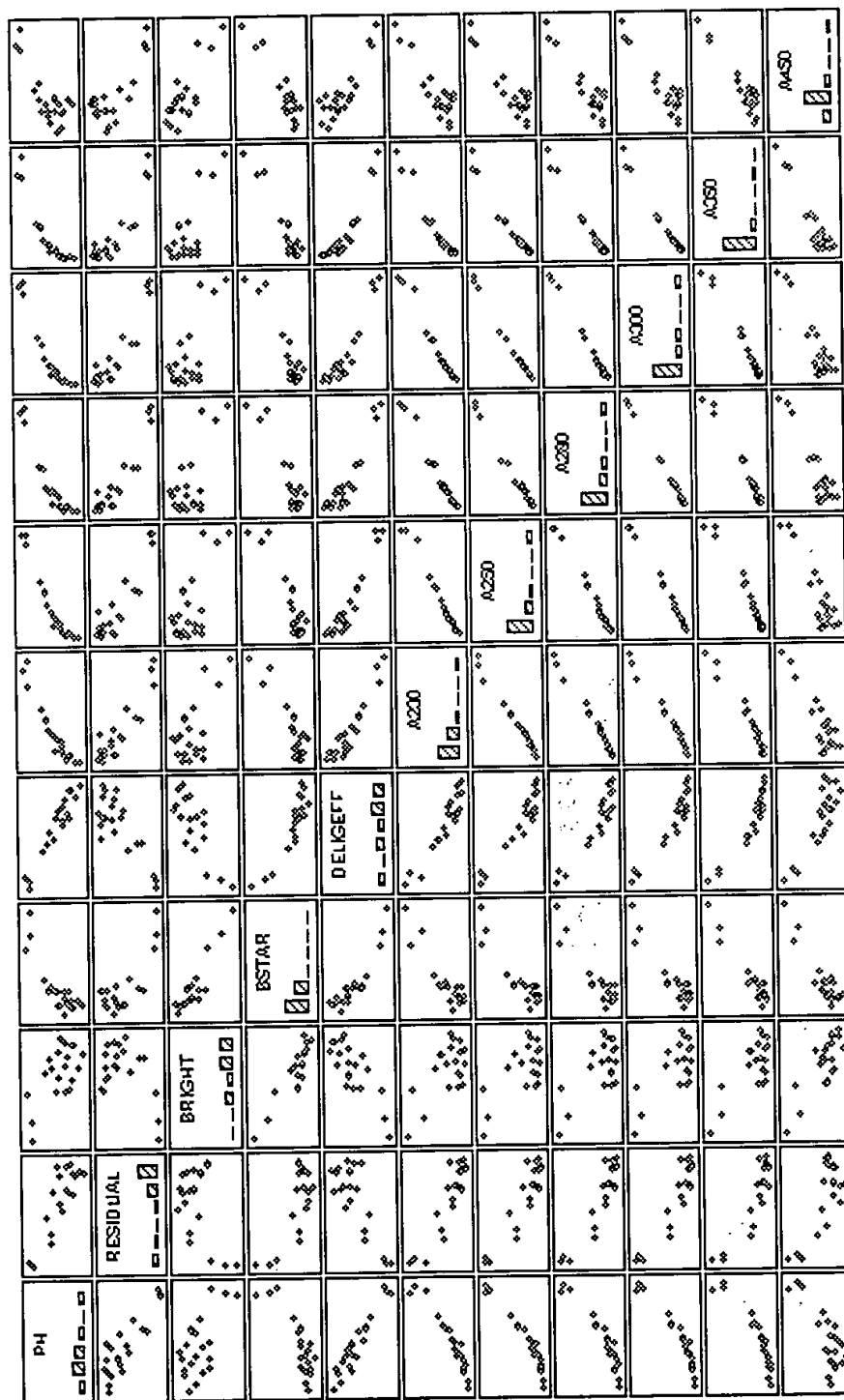


Figure 2

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Matrix Plot

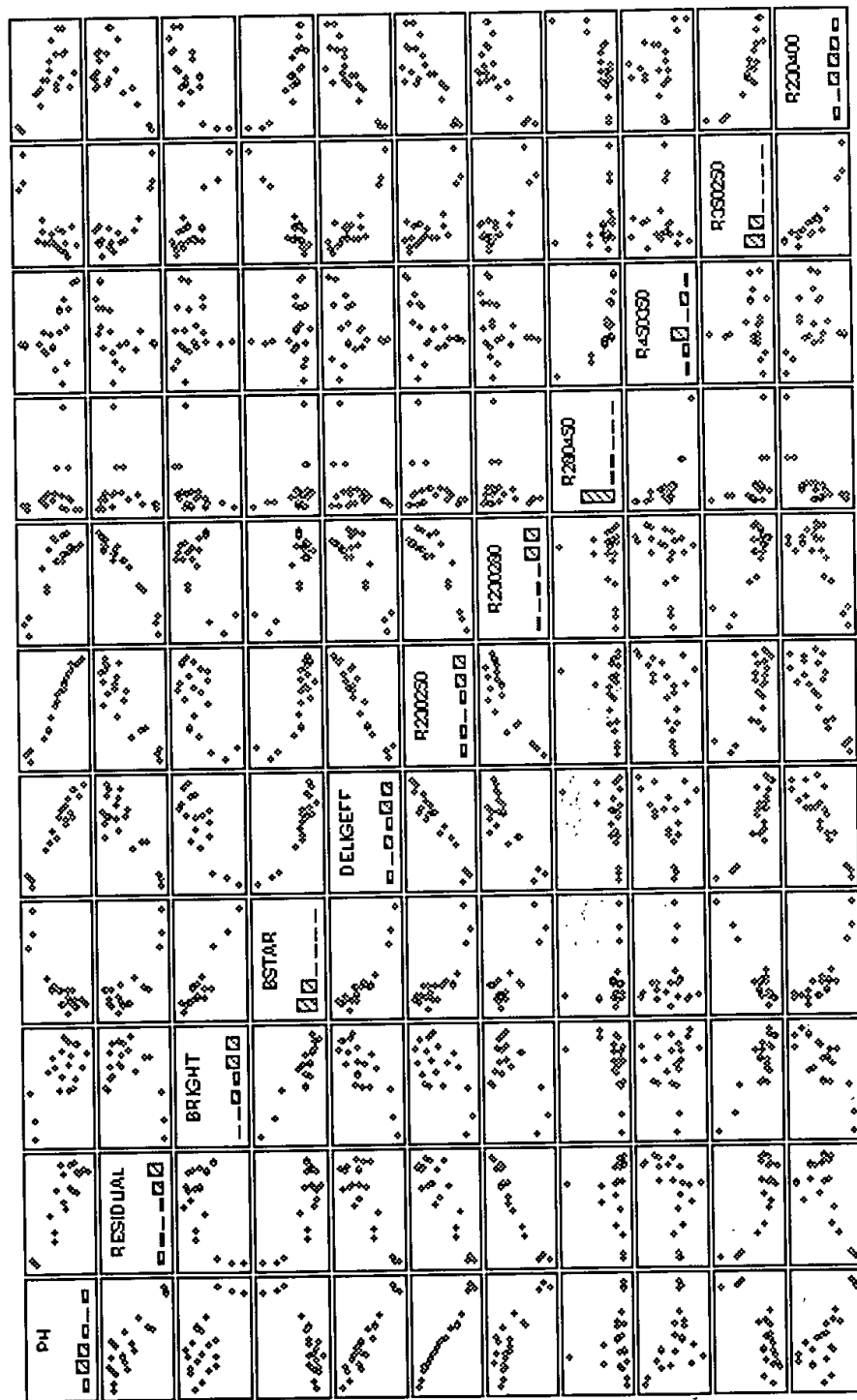


Figure 3

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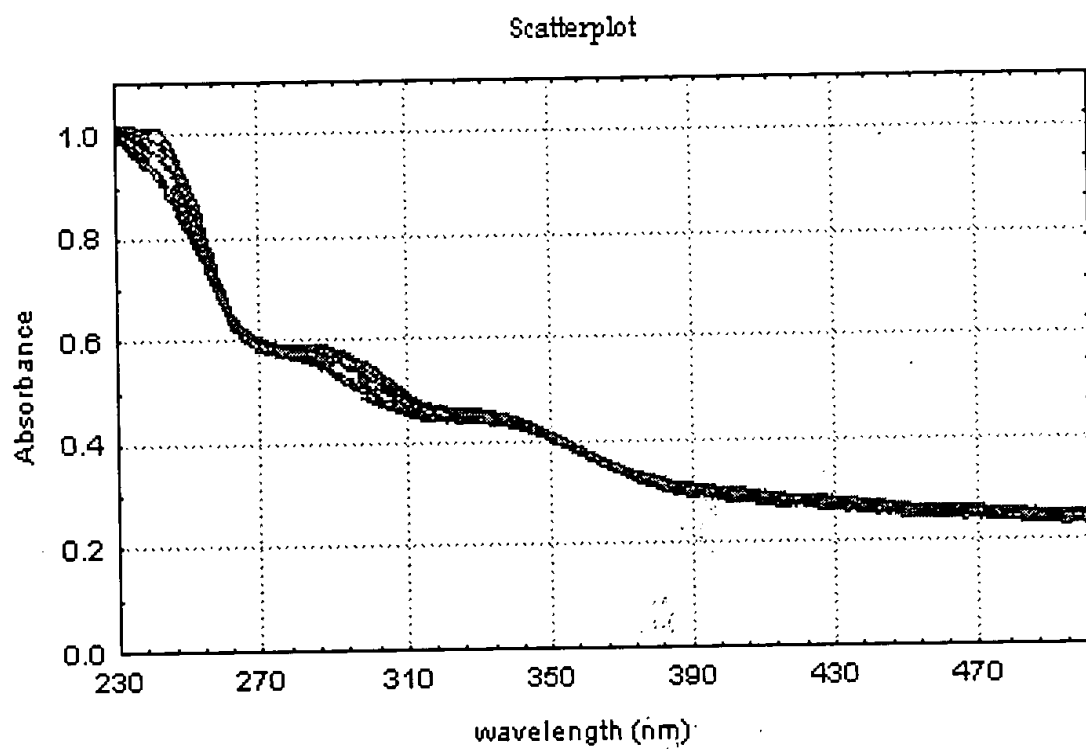


Figure 4

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Matrix Plot

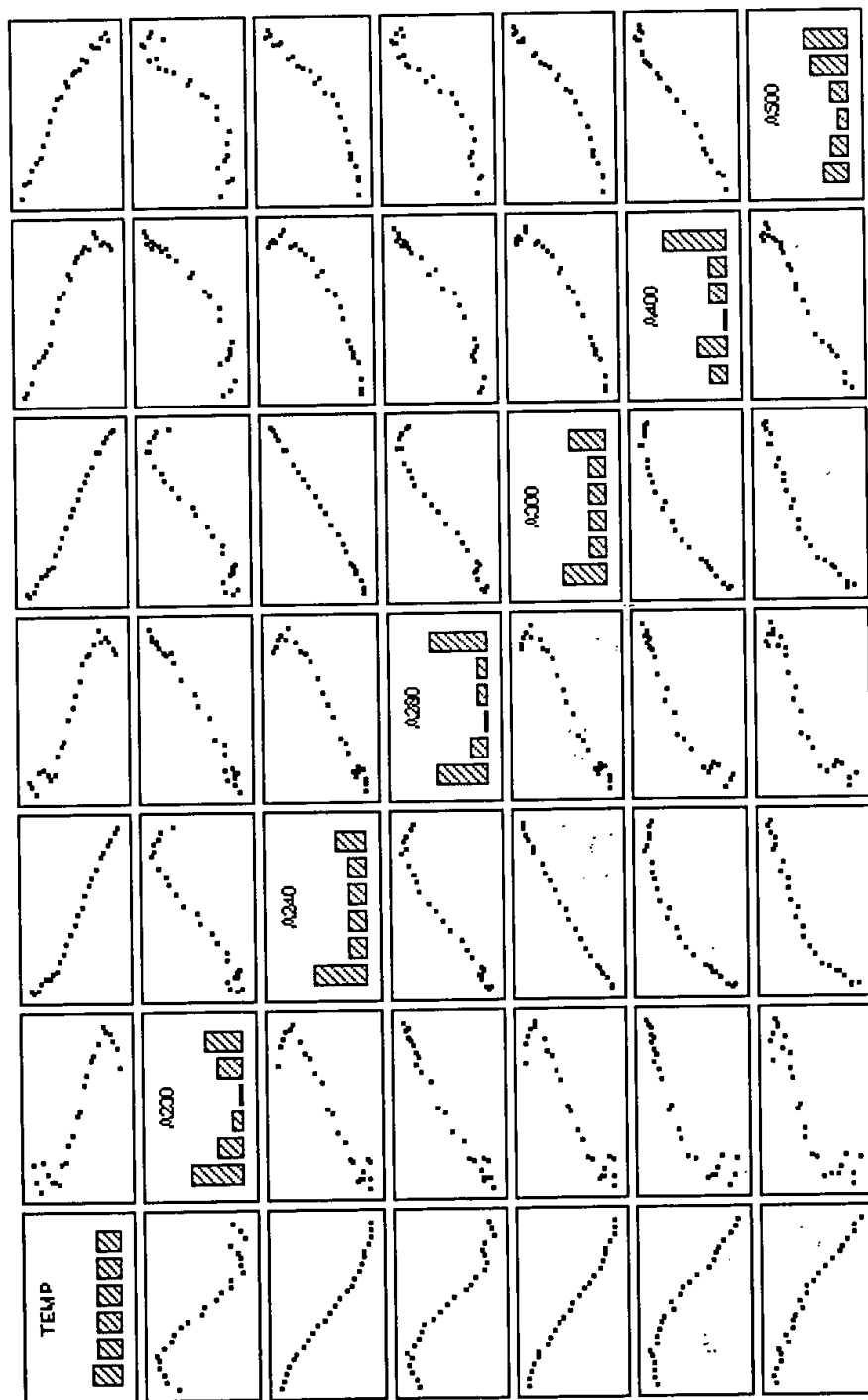


Figure 5

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Matrix Plot

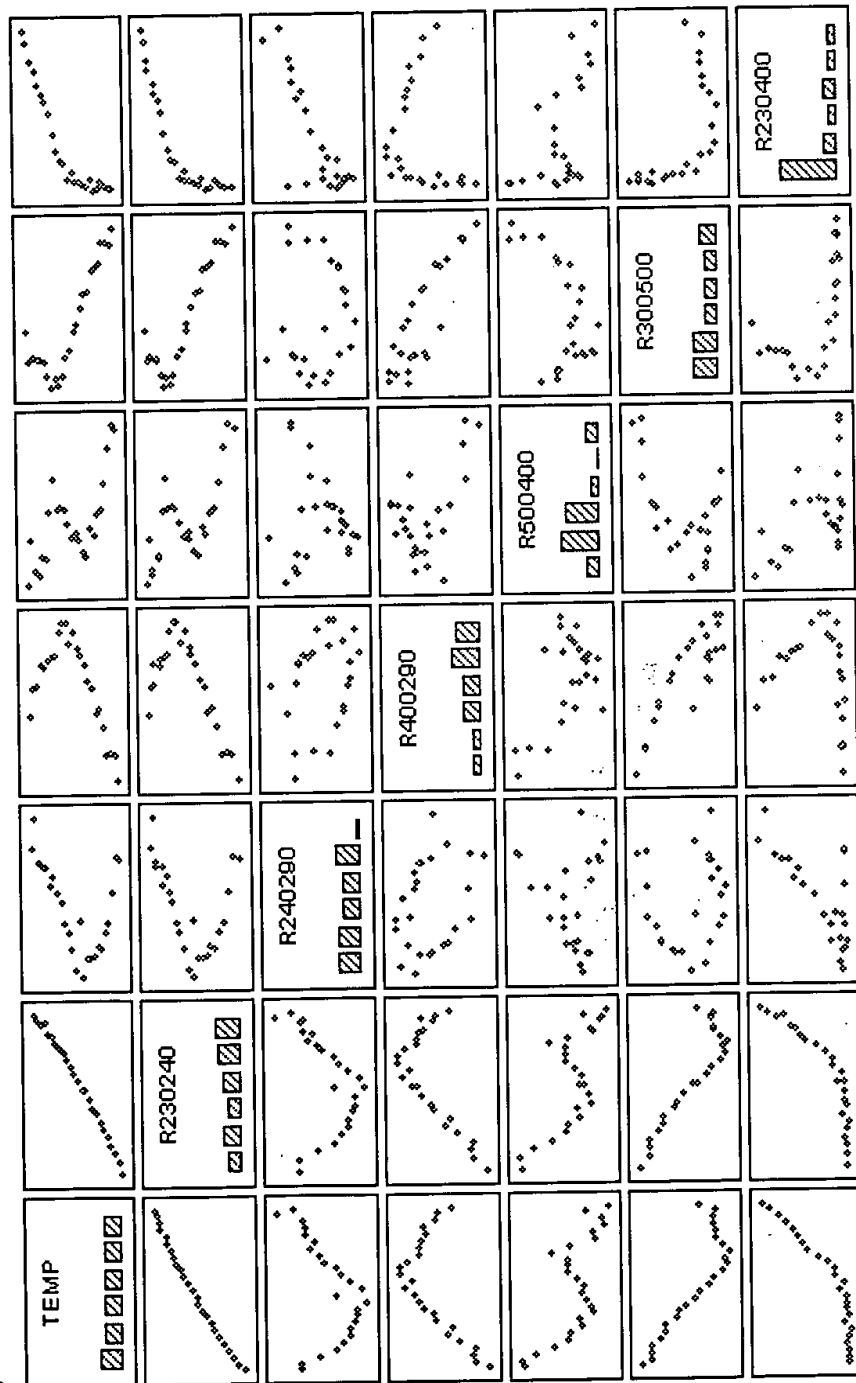


Figure 6

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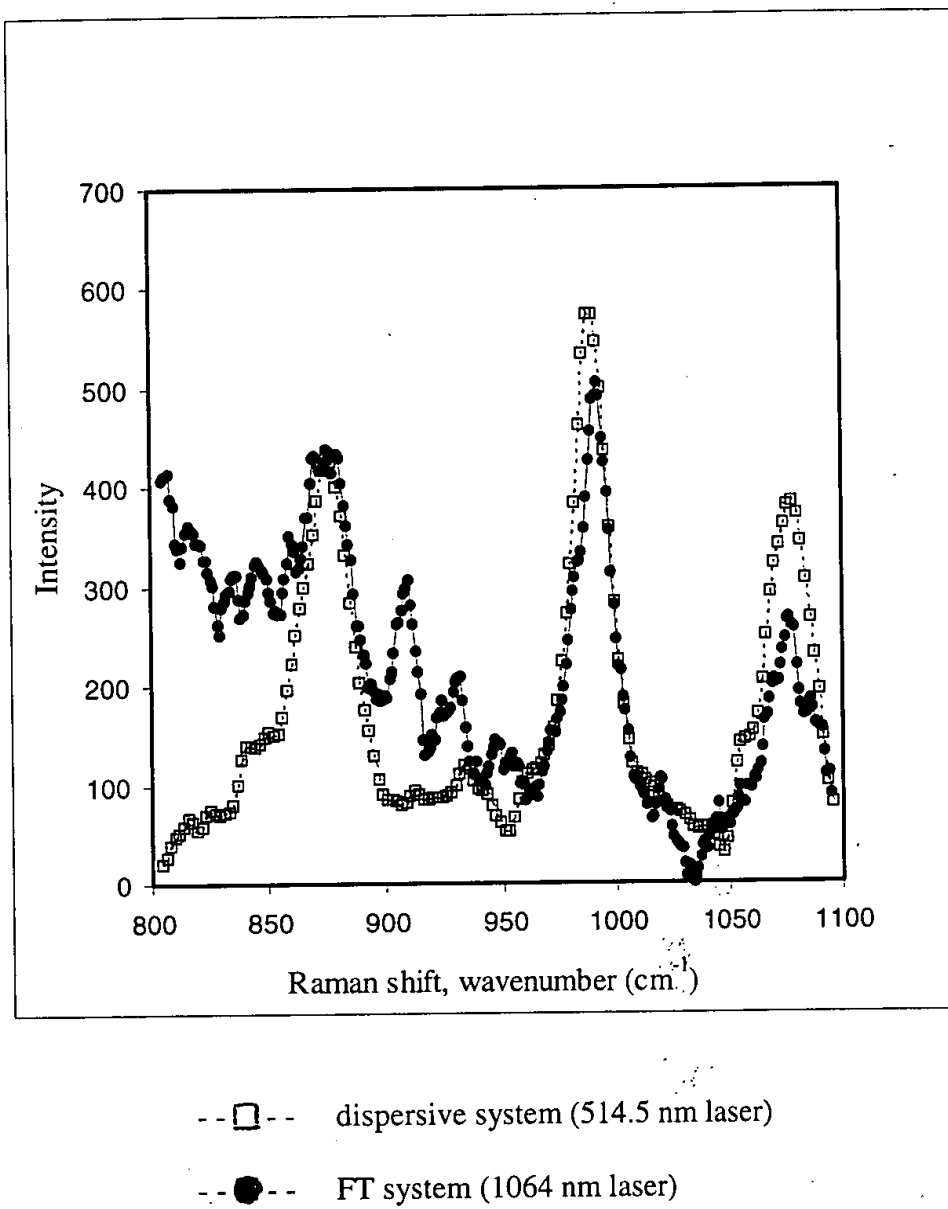


Figure 7

Water Subtraction and Baseline Correction

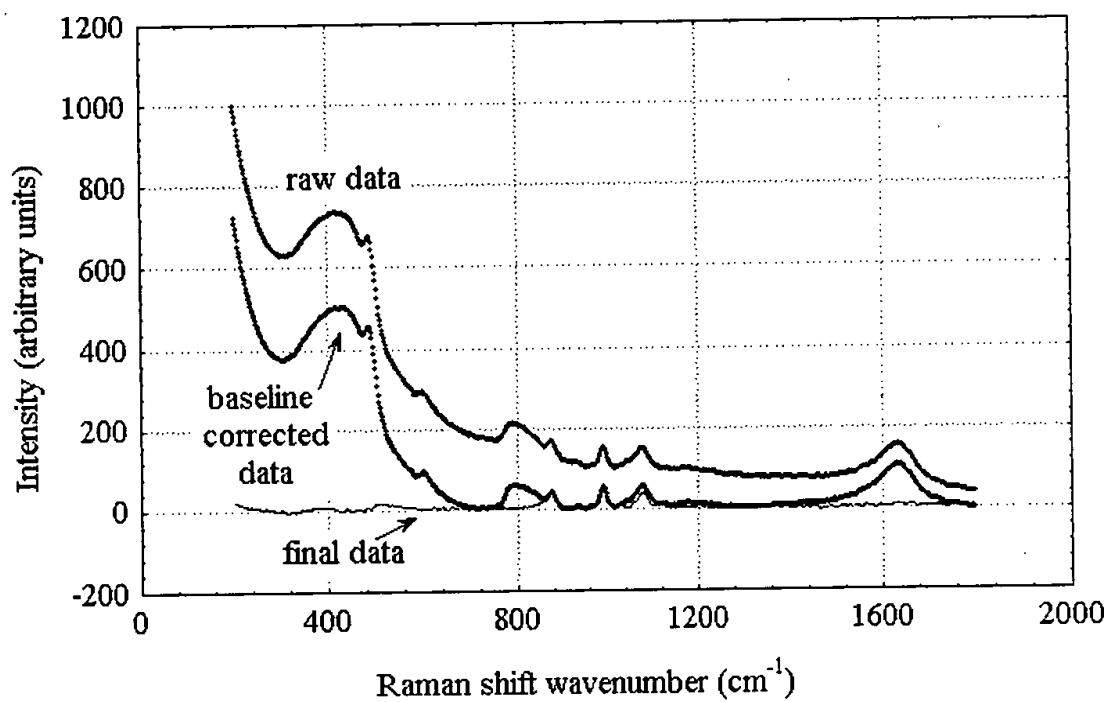


Figure 8

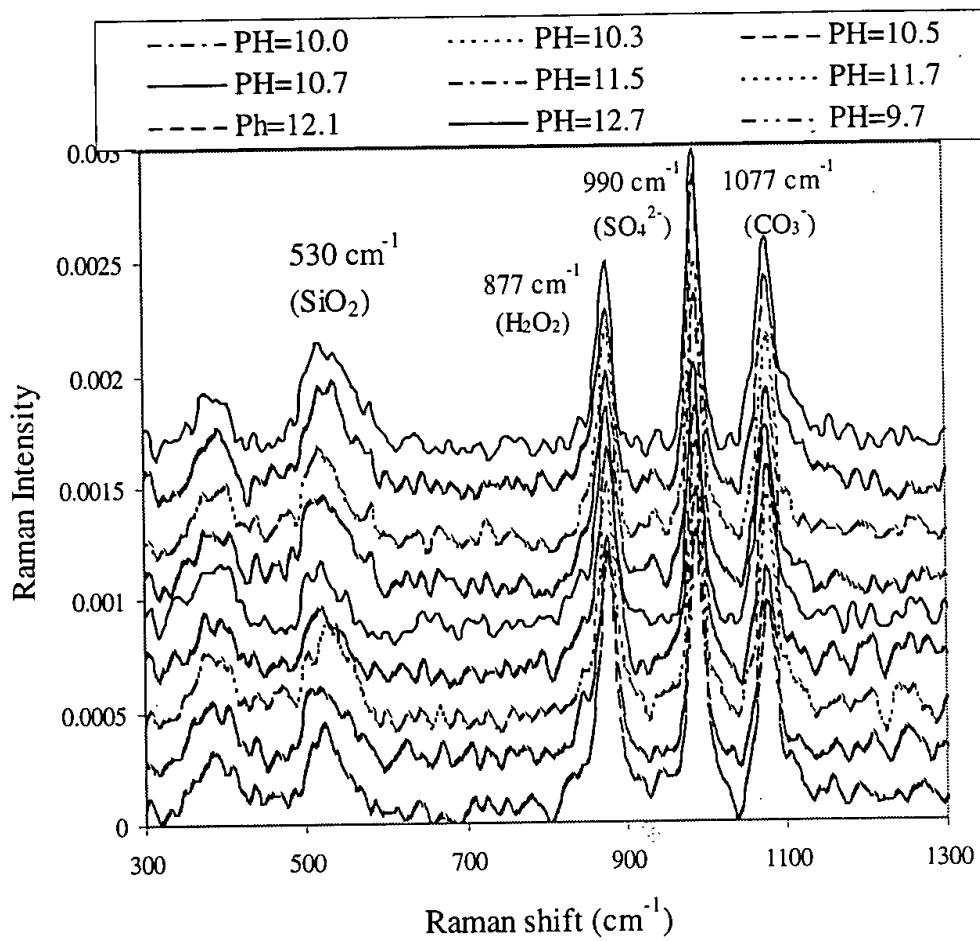


Figure 9

Matrix Plot Aspen TMP Pulp Bleaching with Hydrogen Peroxide Pulp and Bleaching Pressate Properties

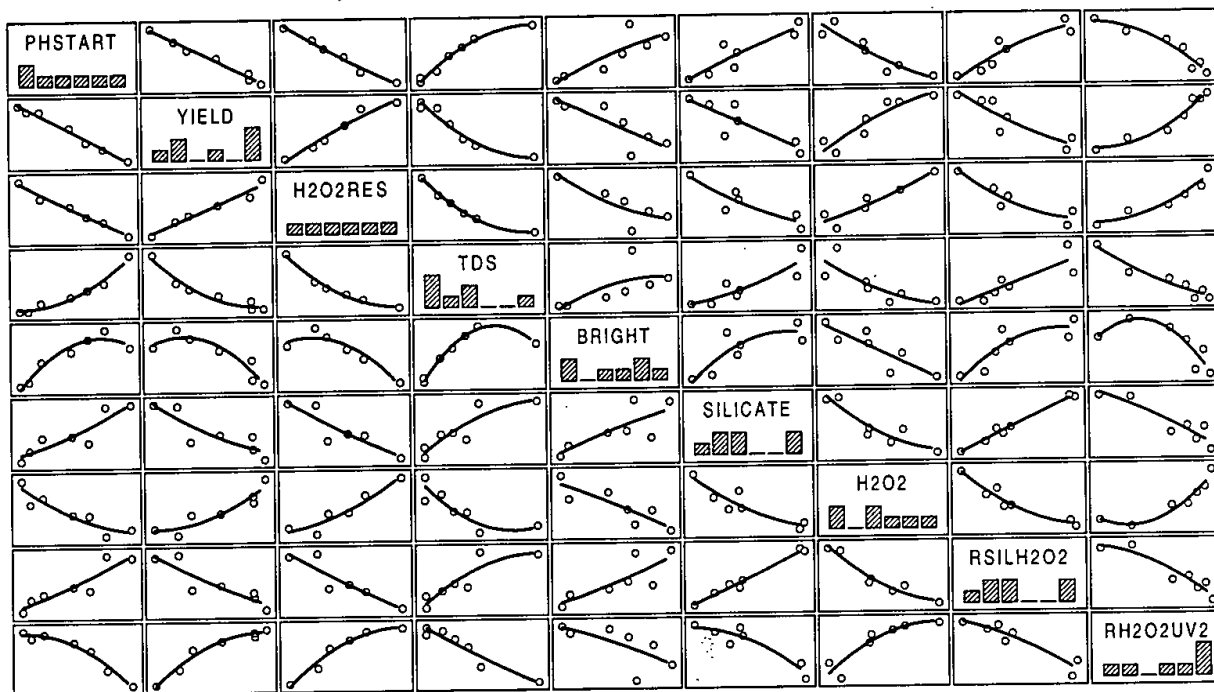


Figure 10

Raman Spectra Hydrogen Peroxide Bleaching of Aspen

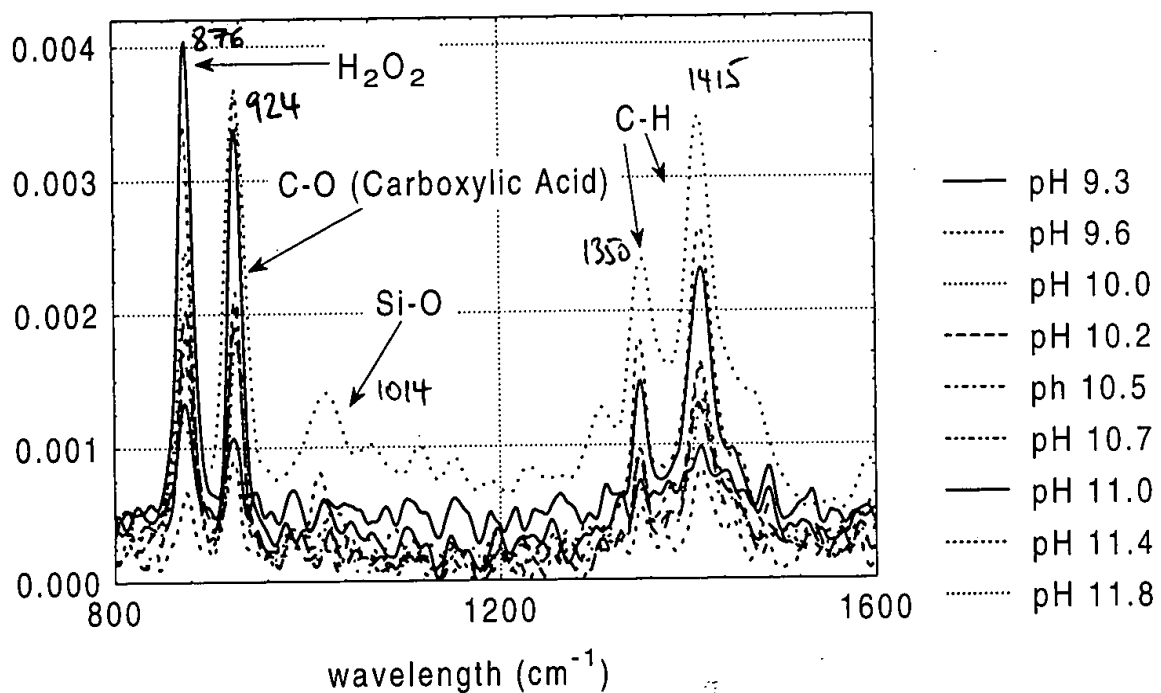


Figure 11

Predicted vs. Observed Values
Dependent variable: ISO BRIGHTNESS
Independent variables Raman intensities and intensity ratio

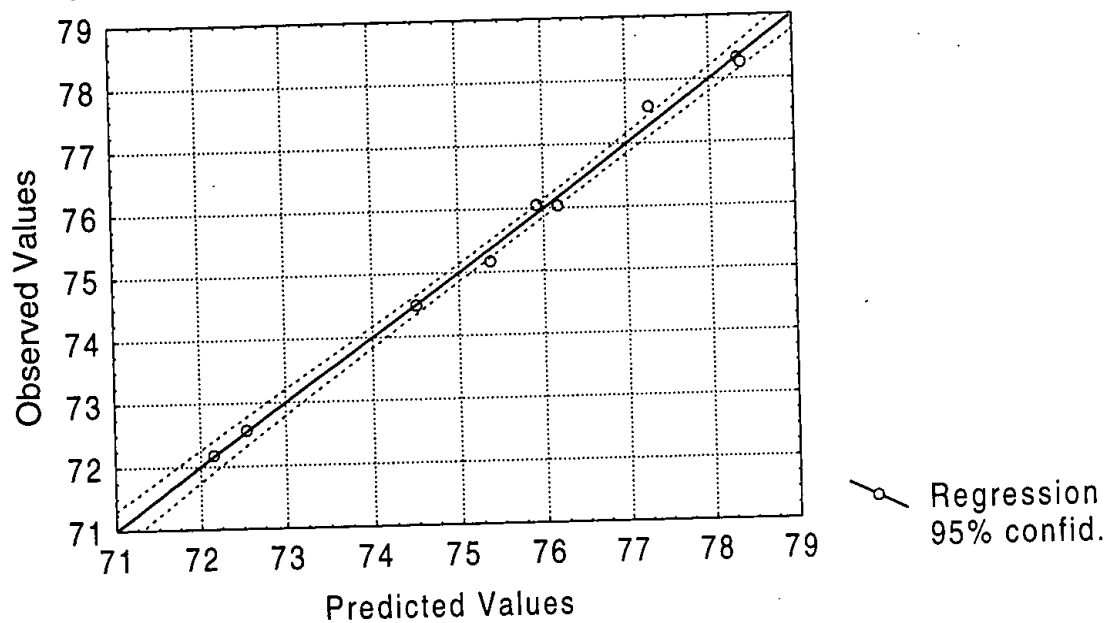


Figure 12

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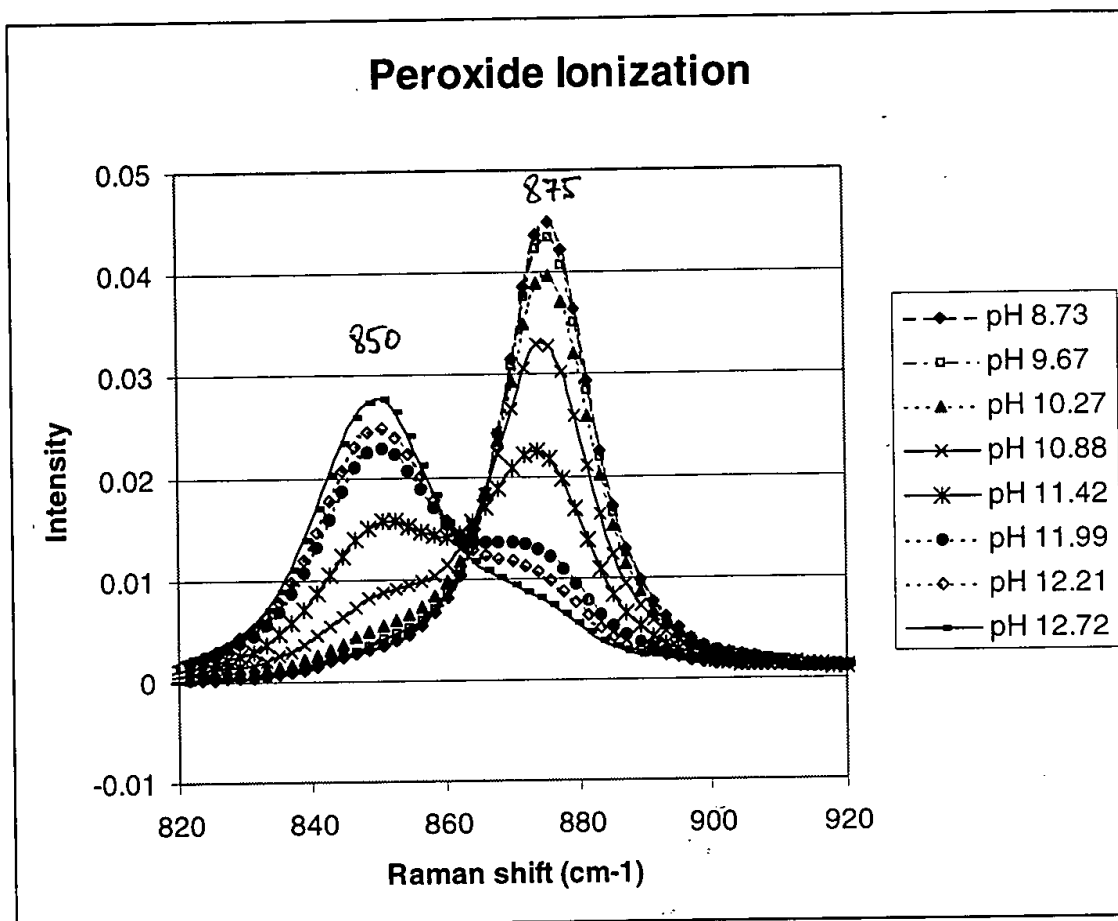


Figure 13

Matrix Plot Raman Intensity Ratios HOO- and HOOH

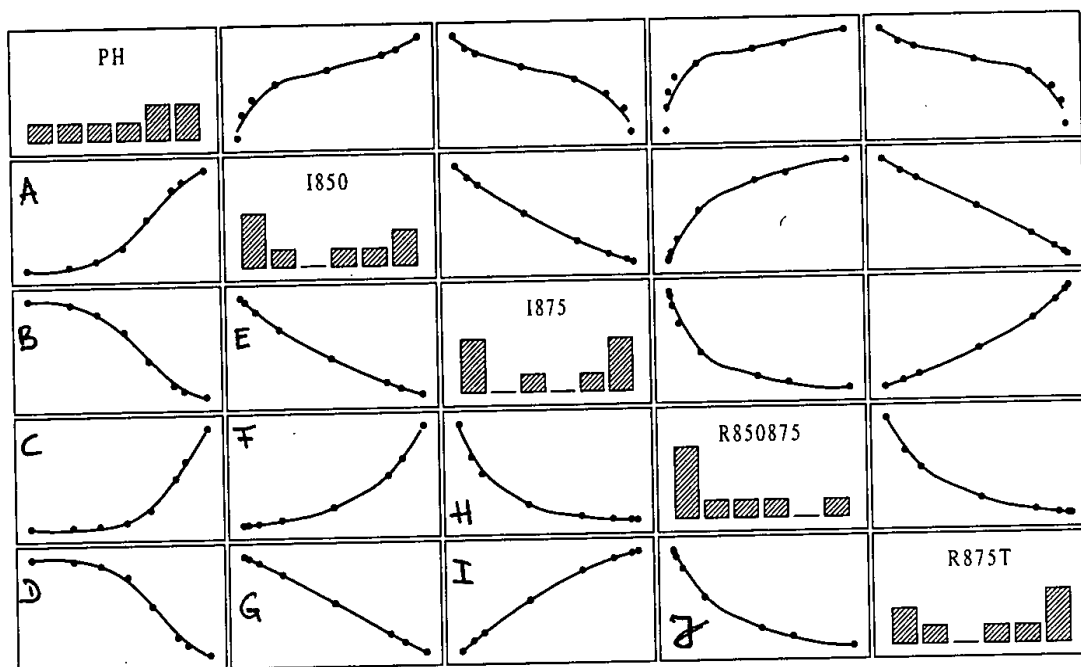


Figure 14

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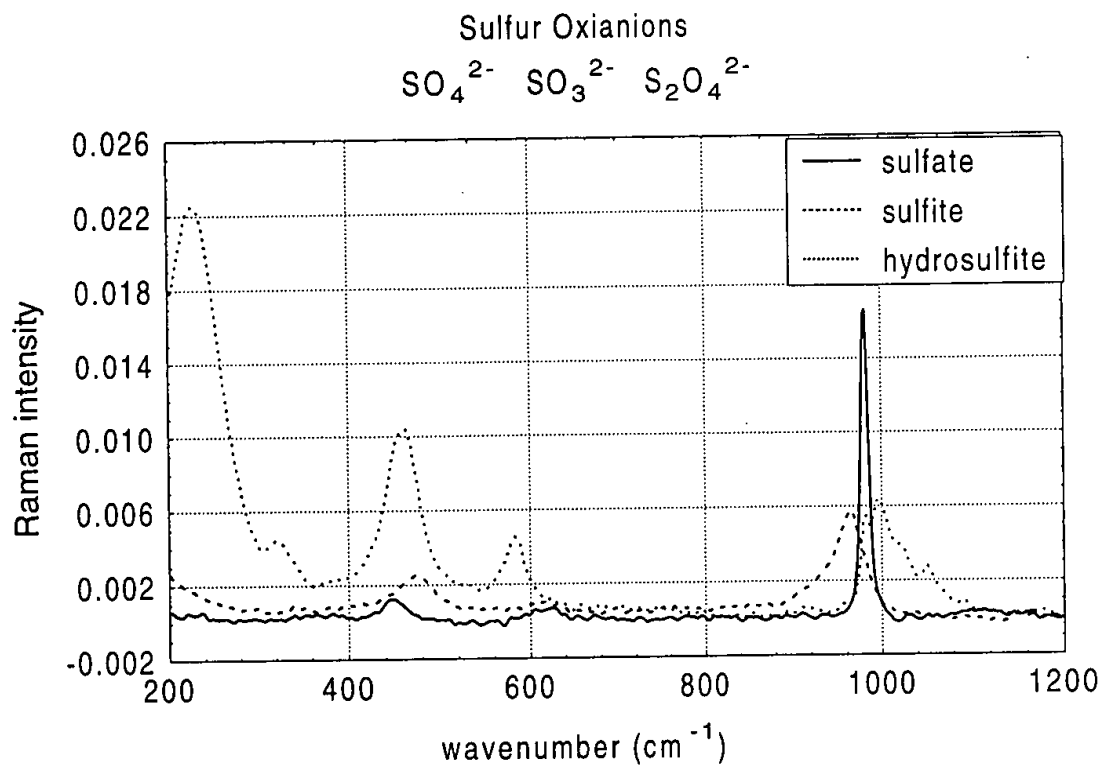


Figure 15

Sulfur Oxianions
 SO_4^{2-} SO_3^{2-} $\text{S}_2\text{O}_4^{2-}$

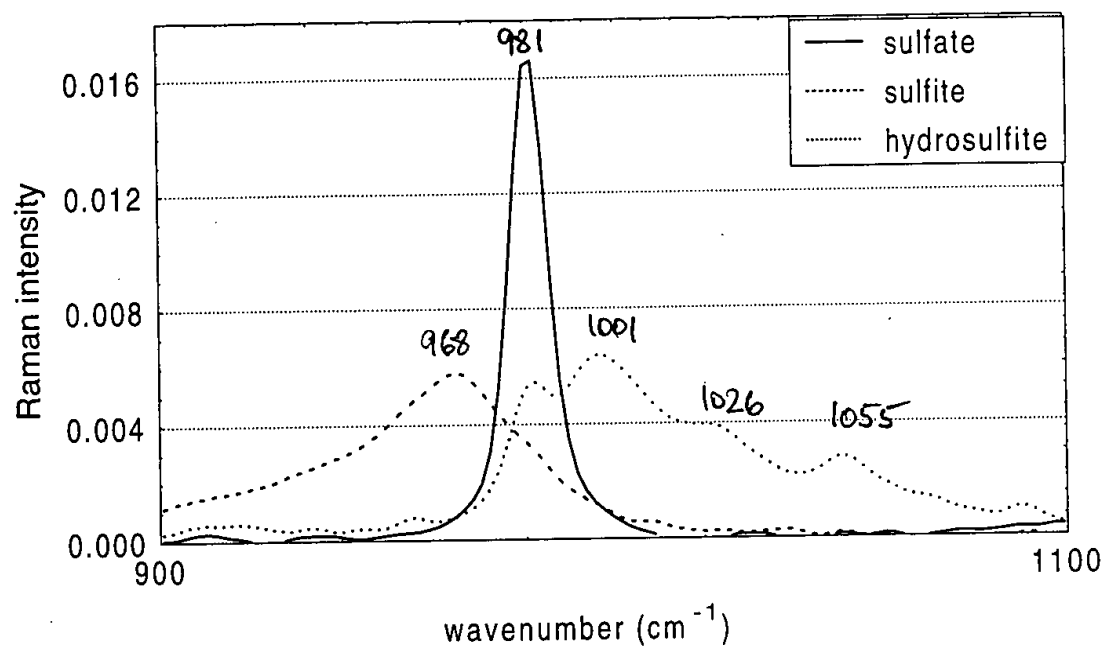


Figure 16

Raman Scattering Intensities
Hydrosulfite Oxidation

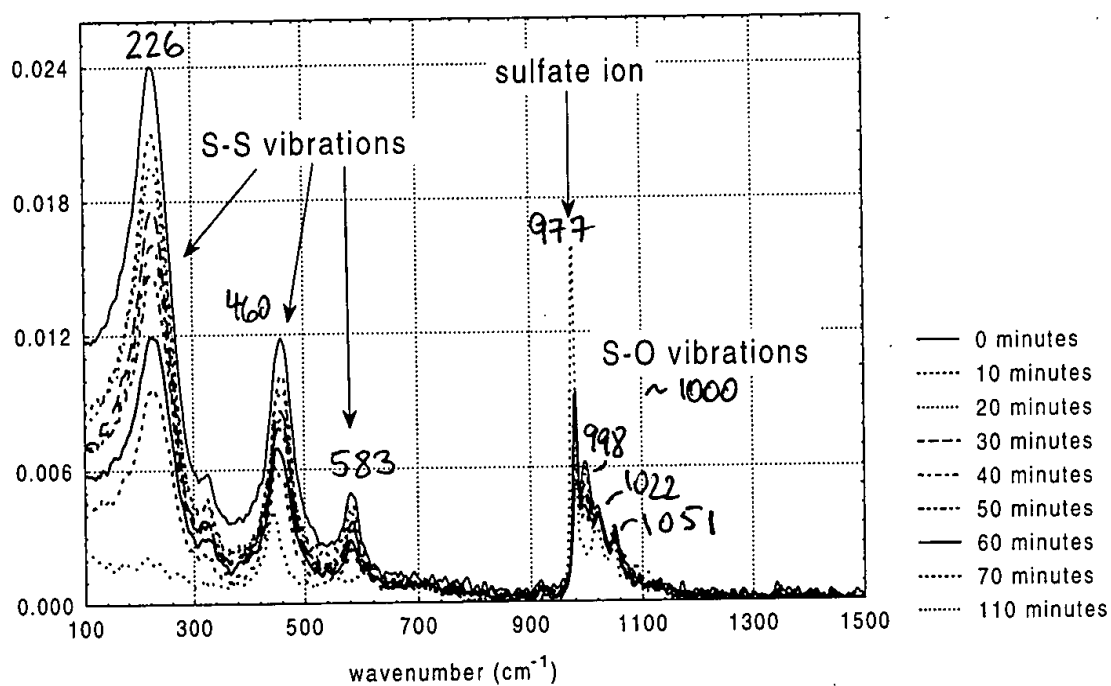


Figure 17

Raman Spectra (S-O stretch)
Hydrosulfite Oxidation

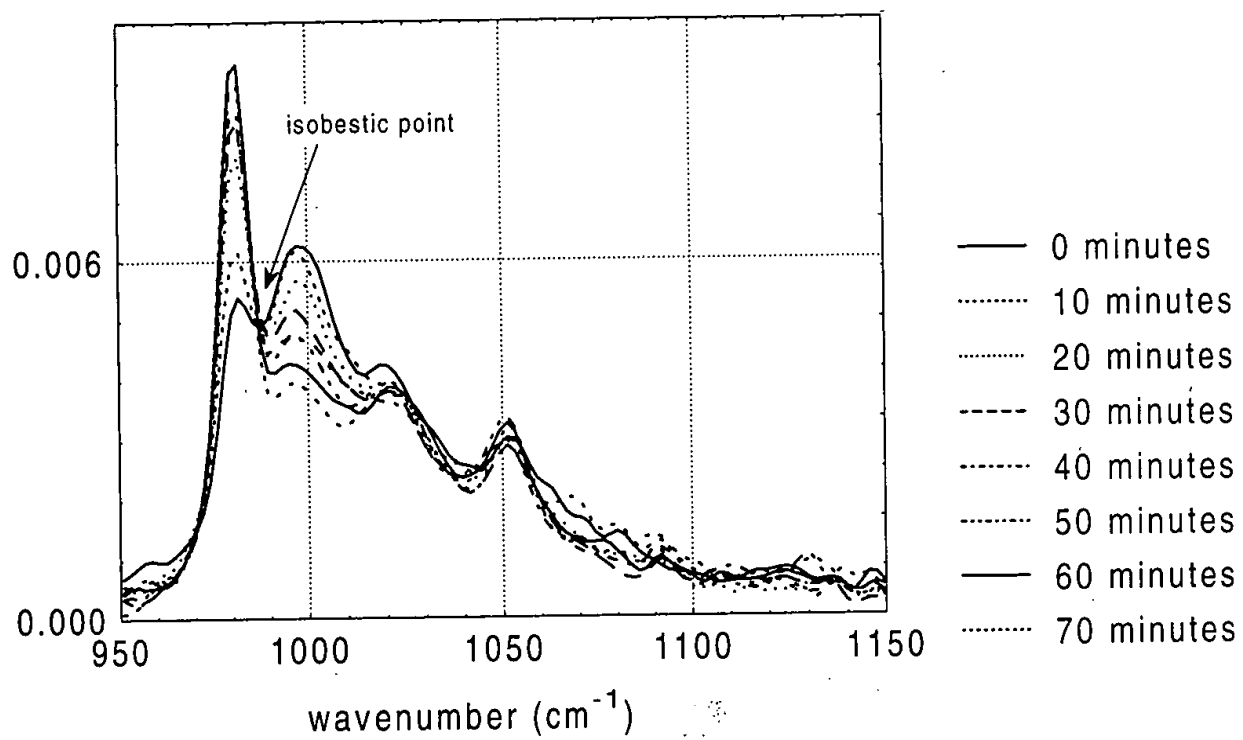


Figure 18

Matrix Plot

Hydrosulfite Oxidation

Raman Intensities and Ratios with ORP

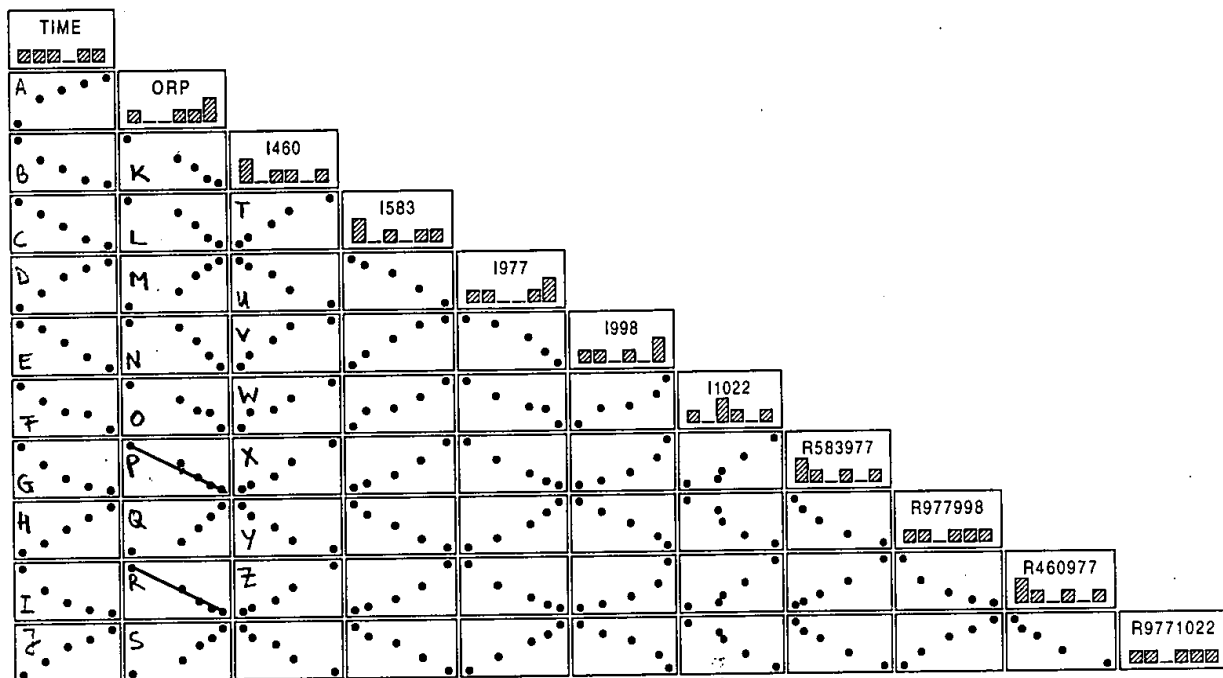


Figure 19

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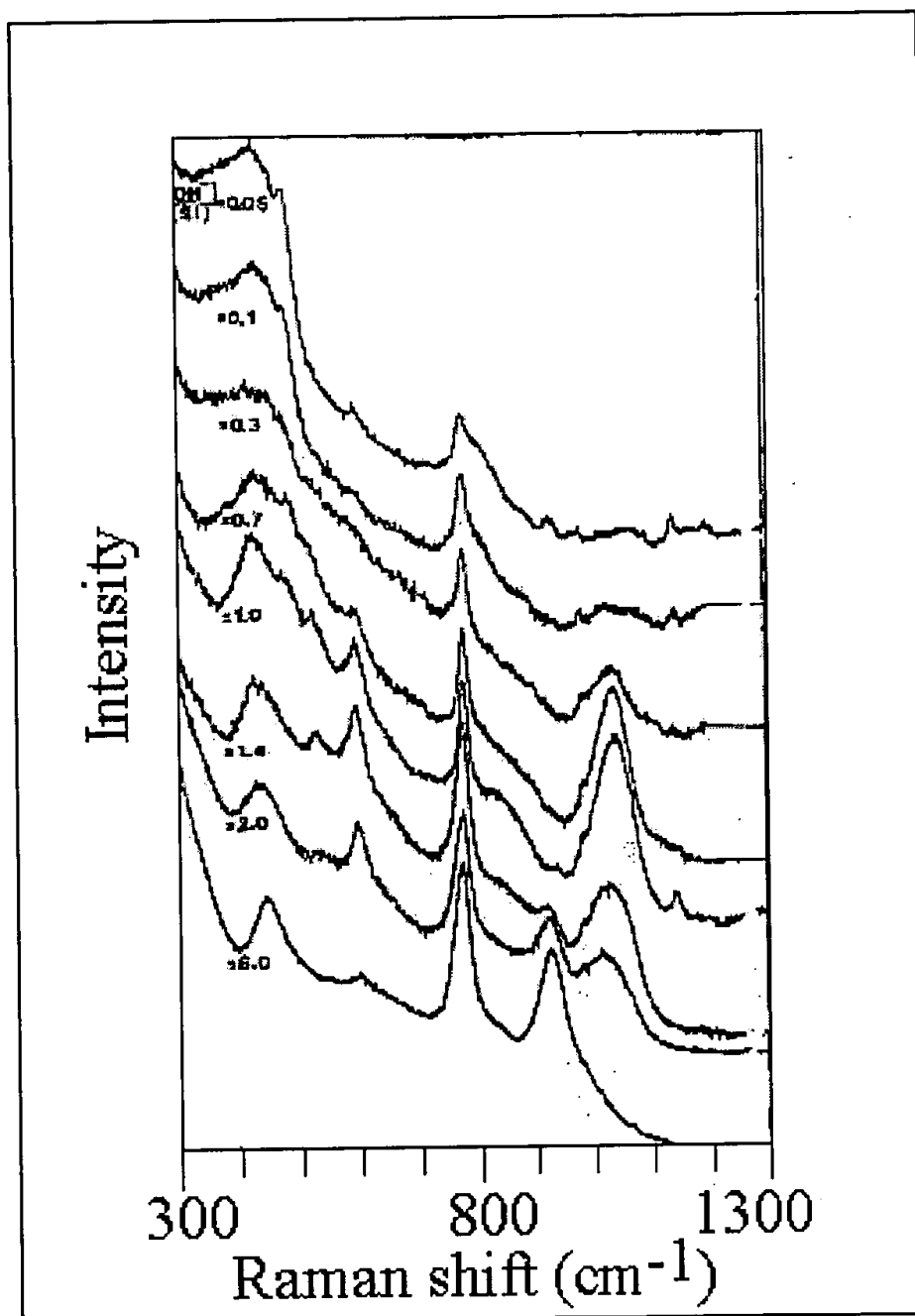


Figure 20

Matrix Plot
Raman Data
Silicate Peak Intensities vs NaOH Added

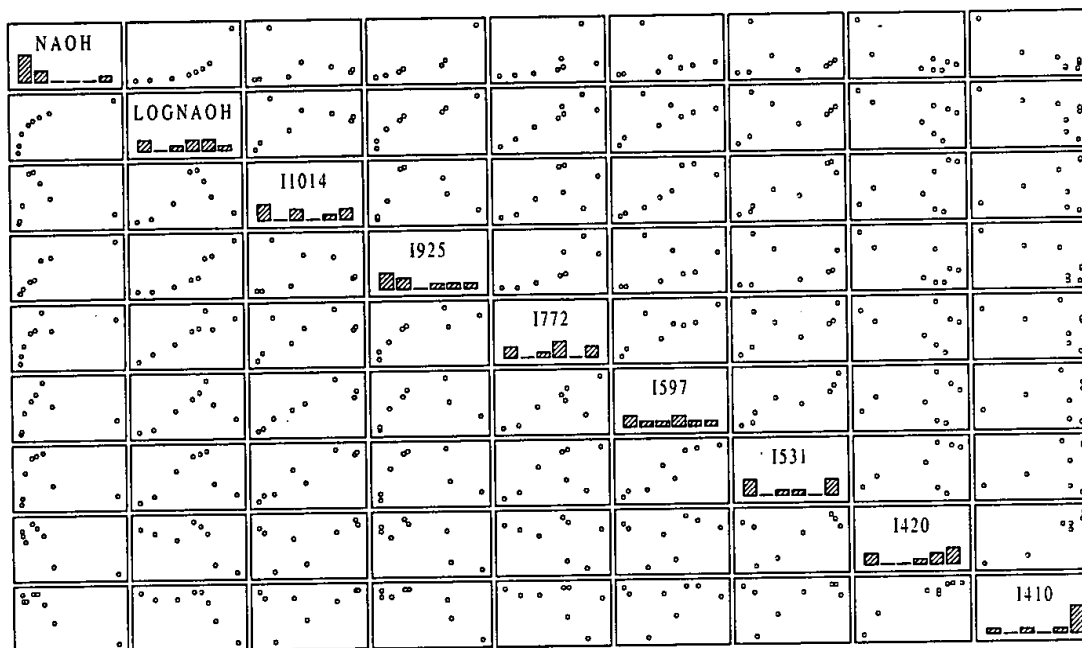


Figure 21

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Matrix Plot (Raman Peak Intensities)

Silicate Data

Data Extracted From P.K. Dutta and D.-C. Sheih Applied Spectroscopy 39 (2) 343-6

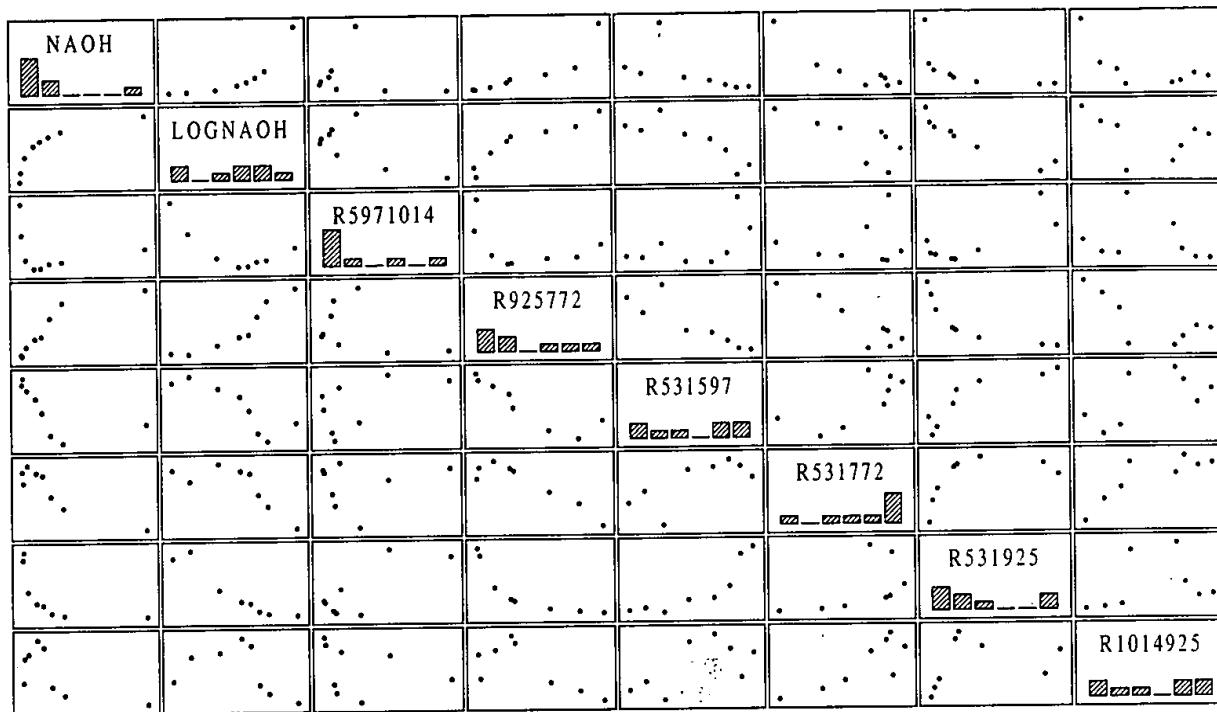


Figure 22

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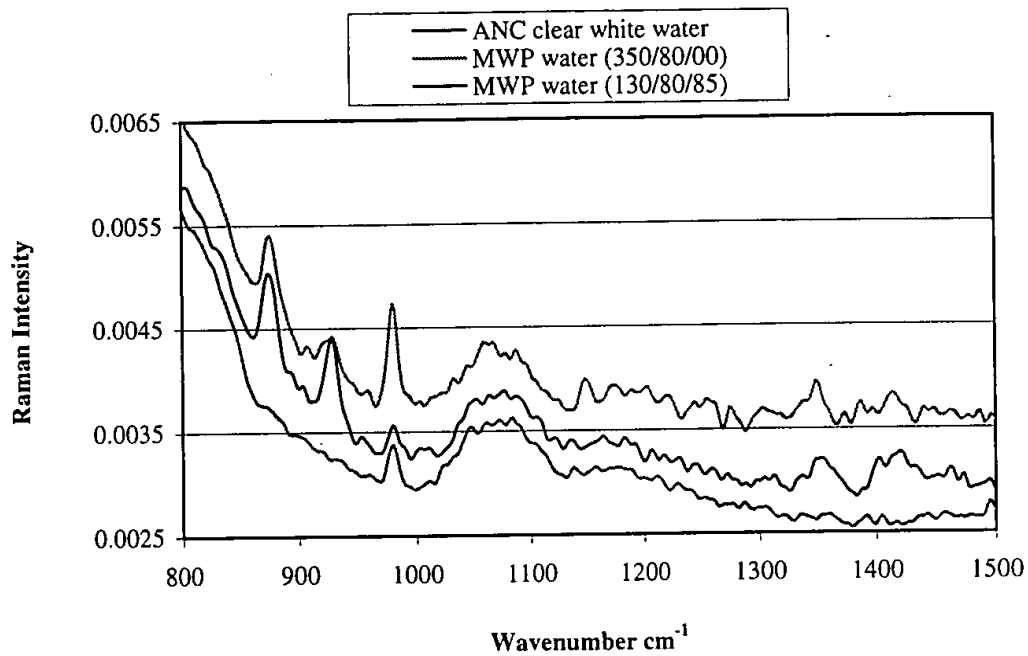


Figure 23

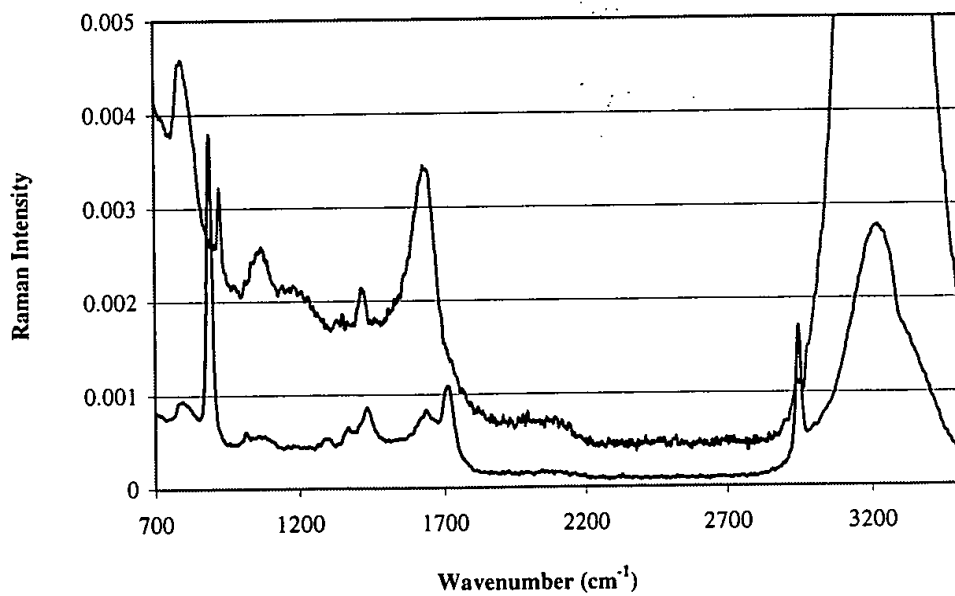


Figure 24